## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

## In the Claims.

49. (Twice Am nded) A method for making a non-volatile semiconductor device comprising:

forming a multilayer gate dielectric having a charge storage layer and being dielectrically equivalent to a layer of silicon dioxide having a thickness that is less than 200 angstroms;

forming a gate comprising polycrystalline silicon of a first conductivity type on said gate dielectric; and

forming source and drain regions separated by a channel region in a semiconductor substrate, said source and drain regions having a second conductivity type different from said first conductivity type.

15

10

5

66. (Amended) The method of claim 64, wherein:
the charge storage layer comprises silicon nitride.

20 67. (Amended) The method of claim 60, wherein:

the first semiconductor layer comprises a p-type gate; and

the second semiconductor layer comprises a p-type channel disposed between n-type source/drain regions.

25

30

68. (New) The method of claim 60, wherein:

the first semiconductor layer comprises an n-type gate; and

the second semiconductor layer comprises an n-type channel disposed between p-type source/drain regions.

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

11

55. (New) The method of claim 60, wherein:

the multilayer gate dielectric comprises a charge storage layer selected from the group consisting of silicon nitride, silicon oxynitride, silicon-rich silicon dioxide, and a ferroelectric material.

10

15